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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/533,462	03/03/2006	Yves Mayeresse	VB60410	1403	
	7590 02/06/2008 REECHAM CORPORA	EXAMINER			
SMITHKLINE BEECHAM CORPORATION CORPORATE INTELLECTUAL PROPERTY-US, UW2220 P. O. BOX 1539 KING OF PRUSSIA, PA 19406-0939			SWARTZ, RODNEY P		
			ART UNIT	PAPER NUMBER	
KING OF FRUSSIA, FA 19400-0939			1645		
			NOTIFICATION DATE	DELIVERY MODE	
	•		02/06/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

US_cipkop@gsk.com

		1				
·		Application No.	Applicant(s)			
		10/533,462	MAYERESSE, YVES			
Office Action Summ	ary	Examiner	Art Unit			
		Rodney P. Swartz, Ph.D.	1645			
The MAILING DATE of this of Period for Reply	ommunication app	pears on the cover sheet wi	ith the correspondence address			
A SHORTENED STATUTORY PE	RIOD FOR REDI	V IS SET TO EXPIRE 3 M	ONTH(S) OR THIRTY (30) DAYS			
WHICHEVER IS LONGER, FROM - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o	THE MAILING D provisions of 37 CFR 1.1 f this communication. aximum statutory period od for reply will, by statute e months after the mailin	ATE OF THIS COMMUNIC 36(a). In no event, however, may a r will apply and will expire SIX (6) MON e, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1) Responsive to communication	on(s) filed on <u>06 A</u>	pril 2007.				
2a) ☐ This action is FINAL .						
3) Since this application is in co	ondition for allowa	nce except for formal matt	ters, prosecution as to the merits is			
closed in accordance with th	e practice under t	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims	,					
4)⊠ Claim(s) <u>1-40</u> is/are pending	in the application					
4a) Of the above claim(s)						
5)⊠ Claim(s) <u>1-11 and 15-17</u> is/a	re allowed.					
6)⊠ Claim(s) <u>12-14 and 18-40</u> is	are rejected.	,				
7)⊠ Claim(s) <u>12,18 and 22</u> is/are	objected to:					
8) Claim(s) are subject t	o restriction and/o	or election requirement.				
Application Papers						
9) The specification is objected	to by the Examine	er.				
10)☐ The drawing(s) filed on	-		by the Examiner.			
Applicant may not request that	-	, ,	-			
			(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is obj						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of	a claim for foreigr	priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ No	ne of:					
 Certified copies of the 	priority document	ts have been received.				
•	•	ts have been received in A	•			
Copies of the certified	copies of the prior	rity documents have been	received in this National Stage			
application from the In						
* See the attached detailed Offi	ce action for a list	of the certified copies not	received.			
Attachment(s)) Notice of References Cited (PTO-892)		4) The latestick S	Summary (PTO-413)			
) Notice of References Clied (P10-692)) Notice of Draftsperson's Patent Drawing	Review (PTO-948)	Paper No(s	s)/Mail Date			
Information Disclosure Statement(s) (PTC Paper No(s)/Mail Date		5) Notice of I	nformal Patent Application —-			

10/533,462 Art Unit: 1645

DETAILED ACTION

- 1. Applicant's Response to Non-Compliant Amendment, received 6 April 2007, is acknowledged. Claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, and 39 have been amended. New claim 40 has been added.
- 2. Claims 1-40 are pending and under consideration.

Notice by Examiner

3. Newly amended claim 20 does not comply with the requirements of 37 CFR 1.121(c). However, in order to expedite the prosecution of this application, the examiner draws applicant's attention to line 2 of the claim. The claim indicates the deletion of the parenthesis in line 2. This deletion was already indicated in the Preliminary amendments of the claims, received 29 April 2005. Correction of the claim into its proper form is required for applicant's next response to Office Action.

Rejections/Objections Withdrawn

- 4. The objection to claim 1 is withdrawn in light of the amendment of the claim.
- 5. The objection to claim 12 is withdrawn in light of the amendment of the claim.
- 6. The objection to claim 13 is withdrawn in light of the amendment of the claim.
- 7. The objection to claim 14 is withdrawn in light of the amendment of the claim.
- 8. The objection to claim 16 is withdrawn in light of the amendment of the claim.
- The objection to claim 17 is withdrawn in light of the amendment of the claim.
- .10. The objection to claim 24 is withdrawn in light of the amendment of the claim.
- 11. The objection to claim 27 is withdrawn in light of the amendment of the claim.

10/533,462 Art Unit: 1645

- 12. The rejection of claims 1-22 under 35 U.S.C. 112, second paragraph, as being indefinite for "an" active agent, is withdrawn in light of the amendment of the claims.
- 13. The rejection of claims 3-11 under 35 U.S.C. 112, second paragraph, insufficient antecedent basis for the limitations "step (b)" and "step (c)", is withdrawn in light of the amendment of the claims.
- 14. The rejection of claims 23-39 under 35 U.S.C. 112, second paragraph, as being indefinite for "highly" viscous, is withdrawn in light of the claim amendments.
- 15. The rejection of claims 24-39 under 35 U.S.C. 112, second paragraph, as being indefinite for claimed invention, is withdrawn in light of the amendment of the claims.
- 16. The rejection of claim 3 under 35 U.S.C. 112, second paragraph, as being indefinite for pressure limit, is withdrawn in light of the amendments of the claims.
- 17. The rejection of claims 23-39 under 35 U.S.C. 112, second paragraph, as being indefinite for preservation of antigenicity/activity, is withdrawn in light of the amendment of the claims.
- 18. The rejection of claims 1-13 and 15-39 under 35 U.S.C. 112, second paragraph, as being indefinite for concentration, is are withdrawn in light of applicant's arguments and the amendment of the claims.
- 19. The rejection of claims 23, 27, 28, 29, 31, 35, 36, and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Higuchi (U.S. Pat. No. 3,929,132), is withdrawn in light of the amendments of the claims and applicant's argument.

Applicant argues that Higuchi teaches compositions that include up to 80% active agent with additional components in amounts less than about 2% of the weight of the total mixture. Higuchi also discloses addition of inert solids in compositions having a low concentration of

10/533,462 Art Unit: 1645

active agent, but does not teach that the disclosed inert solids are glass forming polyol stabilizing agents, or that the inert solids exert any beneficial effect with respoect to preventing denaturation, aggregation and/or other means that result in loss of activity of the active agent.

The examiner has considered applicant's argument in light of the amendment of the claims, and finds it persuasive.

Rejections Maintained

20. The rejection of claim 14 under 35 U.S.C. 112, second paragraph, as being indefinite for concentration, is maintained for reasons of record.

Applicant argues that based upon Example 2, preservation samples containing concentrations of sucrose from 5% to 25% were dried without boiling or freezing to form a highly viscous liquid. One of ordinary skill in the art could (if desired) easily determine concentrations outside this range which yield comparable glass forming and activity preserving results.

The examiner has considered applicant's argument, but does not find it persuase for sucrose and trehalose.

The instant claim is drawn to the method of claim 1 which recites that the active agent retain at least 40% of activity, but the instant claim 14 recites that the concentration can be any amount less than 15%.

As previously stated, the specification teaches that any concentration of sucrose less than 10% resulted in 100% loss of activity of the active agent.

Thus, it remains unclear how one utilizes concentrations of sucrose or trehalose less than 10%, but maintain 40% of activity.

10/533,462 Art Unit: 1645

21. The provisional rejection of claims 23-33, 36-39 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-3, 6, 14, 15-18, and 20 of copending Application No. 10/533,464, is maintained for reasons of record.

Applicant respectively requested deferral of the issue of double patenting until such time that the claims in this application or the claims in copending application number 10/533,464 are found to be otherwise allowable.

The examiner has considered applicant's request and maintains the rejection because no terminal disclaimer has been submitted.

Claim Objections

- 22. Newly amended claims 12 is objected to because of the following informality: in line 2, "the group: of" should be "the group of:" to be consistent with all other claims. Appropriate correction is required.
- 23. Newly amended claims 18 is objected to because of the following informality: in line 2, "the group of" should be "the group of:" to be consistent with all other claims. Appropriate correction is required.
- 24. Newly amended claims 22 is objected to because of the following informality: in line 1, "claims" should be "claim". Appropriate correction is required.

Claim Rejections - 35 USC § 112

25. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

10/533,462 Art Unit: 1645

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

26. Claim 38 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim depends from claim 37.

Claims 37 is drawn to a solution comprising a mixture of acellular or whole cell Diptheria antigen, Tetenus antigen and Pertusis antigens.

However, newly amended claim 38 is drawn to a mixture of accelular or "whole Diphtheria antigen, Tetanus antigen and Pertussis antigens". It is unclear what is meant by the deletion of the word "cell". Clarification is required.

27. Claims 13, 19-21, 34, 35, and 40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are dependent from rejected or objected to claims.

Conclusion

- 28. Claims 12-14 and 18-40 are rejected. Claims 1-11 and 15-17 appear to be allowable.
- 29. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rodney P. Swartz, Ph.D., Art Unit 1645, whose telephone number is (571) 272-0865. The examiner can normally be reached on Monday through Thursday from 9:00 AM to 7:30 PM EST.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Shannon Foley, can be reached on (571)272-0898.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RODNEY P SWARTZ, PH.D PRIMARY EXAMINER

Art Unit 1645

January 30, 2008